CIVIL ONE ENGINEERS AND CONSULTANTS

(Civil Engineering Consultants, Third Party Inspection, PMC Material Testing Laboratory)
An ISO 9001: 2015 Certified Company

Job No.: COEC/BBMP/NRS/017/2021-2022 Date:17.03.2022

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.
Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample : : Cement (Dalmia 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : February-2022
Date of Testing 15.03.2022 to 17.03.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

For CIVIL ONE ENGINEERS & CONSULTANTS

Authorised Signatory

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Job No.: COEC/BBMP/NRS/017/2021-2022 Date 17.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Date of Testing 17.03.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	126	12.60	20.70	79.3	75-100
1.18	163	16.30	37.00	63.0	55-90
600 Micron	248	24.80	61.80	38.2	35-59
300 Micron	155	15.50	77.30	22.7	8-30
150 Micron	130	13.00	90.30	9.7	0-10

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Job No.: COEC/BBMP/NRS/017/2021-2022 Date 17.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Date of Testing 17.03.2022

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	225	1.50	1.50	98.50	95-100
20	8795	58.63	60.13	39.87	30-70
10	3214	21.43	81.56	18.44	10-35
4.75	2563	17.09	98.65	1.35	0-5

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Job No.: COEC/BBMP/NRS/017/2021-2022 Date 17.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Date of Testing 17.03.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2632	52.6	56.3	43.7	25-55
4.75	2015	40.3	96.6	3.4	0-10

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Job No.: COCE/BBMP/NRS/017/2021-2022 Date 17.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Date of Testing 17.03.2022

Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	28	2.80	2.80	97.2	95-100
2.36	25	2.50	5.30	94.7	95-100
1.18	32	3.20	8.50	91.5	90-100
600 Micron	72	7.20	15.70	84.3	80-100
300 Micron	241	24.10	39.80	60.2	20-65
150 Micron	526	52.60	92.40	7.6	0-15

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Job No.: COCE/BBMP/NRS/017/2021-2022 Date 17.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Date of Testing 17.03.2022

Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	26	2.60	2.60	97.4	90-100
1.18	38	3.80	6.40	93.6	70-100
600 Micron	84	8.40	14.80	85.2	40-100
300 Micron	251	25.10	39.90	60.1	5-70
150 Micron	532	53.20	93.10	6.9	0-15

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Job No: COEC/BBMP/NRS/017/2021-2022 Date:17.03.2022

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 17.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1465 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: ~~COCE/BBMP/NRS/017/2021-2022~~ 17.03.2022

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.
Name of Work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore
Sample Supplied by: :AGENCY
BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007
Sample Identification: CPVC pipe 50mm dia
Date of Testing 17.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.9	Min 53.7 mm Max 54.3 mm
4	Density	1570 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No: COCE/BBMP/NRS/017/2021-2022 30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	30.03.2022	8.017	333.3	14.81
2	23.03.2022	30.03.2022	8.178	348.9	15.51
3	23.03.2022	30.03.2022	8.054	352.3	15.66

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Job No.: COCE/BBMP/NRS/017/2021-2022 20.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	20.04.2022	8.157	506.2	22.50
2	23.03.2022	20.04.2022	8.092	518.9	23.06
3	23.03.2022	20.04.2022	8.144	533.4	23.71

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Job No.: COCE/BBMP/NRS/017/2021-2022 30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	30.03.2022	8.025	335.0	14.89
2	23.03.2022	30.03.2022	8.019	342.1	15.20
3	23.03.2022	30.03.2022	8.051	356.8	15.86

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Job No.: COCE/BBMP/NRS/017/2021-2022 20.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	20.04.2022	8.118	512.2	22.76
2	23.03.2022	20.04.2022	8.029	529.6	23.54
3	23.03.2022	20.04.2022	8.064	535.4	23.80

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Job No.: COCE/BBMP/NRS/017/2021-2022 30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	30.03.2022	8.144	338.9	15.06
2	23.03.2022	30.03.2022	8.197	341.2	15.16
3	23.03.2022	30.03.2022	8.023	359.6	15.98

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Job No.: COCE/BBMP/NRS/017/2021-2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	20.04.2022	8.154	511.6	22.74
2	23.03.2022	20.04.2022	8.110	522.3	23.21
3	23.03.2022	20.04.2022	8.167	535.4	23.80

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Job No.: COCE/BBMP/NRS/017/2021-2022 31.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.021	342.1	15.20
2	24.03.2022	31.03.2022	8.137	358.9	15.95
3	24.03.2022	31.03.2022	8.177	363.6	16.16

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Job No.: COCE/BBMP/NRS/017/2021-2022 21.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Contractor : **Sri. Nagasandra Ramarao Satish(Sathya Borewell Cleaning),** Contractor, Bangalore.

Name of the work : Drilling of Borewells and Providing Water Supply in Ward No.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	21.04.2022	8.196	489.6	21.76
2	24.03.2022	21.04.2022	8.021	492.1	21.87
3	24.03.2022	21.04.2022	8.187	505.6	22.47

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL ONE ENGINEERS & CONSULTANTS

Authorised Signatory

Office: #25/2, GF, 15th Cross, 2nd Main, Health Laout, Annapoorneshwarinagar, Nagarabhavi 2nd Stage, Bangalore-5600
Mob: 9731166144

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CIVIL ONE ENGINEERS AND CONSULTANTS

(Civil Engineering Consultants, Third Party Inspection, PMC Material Testing Laboratory)
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Job No.: COCE/BBMP/NRS/017/2021-2022 31.03.2022

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Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.150	350.0	15.56
2	24.03.2022	31.03.2022	8.137	360.4	16.02
3	24.03.2022	31.03.2022	8.260	371.2	16.50

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1	24.03.2022	21.04.2022	8.064	516.3	22.95
2	24.03.2022	21.04.2022	8.150	528.9	23.51
3	24.03.2022	21.04.2022	8.178	535.4	23.80

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Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.192	349.0	15.51
2	24.03.2022	31.03.2022	8.154	358.1	15.92
3	24.03.2022	31.03.2022	8.020	365.6	16.25

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21.04.2022

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	21.04.2022	8.015	516.5	22.96
2	24.03.2022	21.04.2022	8.167	518.9	23.06
3	24.03.2022	21.04.2022	8.002	522.3	23.21

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Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.051	350.0	15.56
2	24.03.2022	31.03.2022	8.167	360.0	16.00
3	24.03.2022	31.03.2022	8.149	370.0	16.44

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	21.04.2022	8.015	502.1	22.32
2	24.03.2022	21.04.2022	8.166	524.8	23.32
3	24.03.2022	21.04.2022	8.011	536.5	23.84

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